

Patent claims

- 5           1. An automatic gearbox, for a motor vehicle, with  
            infinitely-variable ratio, which may be operated in a  
            constant speed mode, or an acceleration mode,  
            characterized in that  
            the revolution speed in the acceleration mode can be  
            increased or reduced in steps.
- 10           2. An automatic gearbox according to claim 1,  
            characterized in that  
            the revolution speed increase during an acceleration  
            phase is at least in sections independent from the  
15           ratio.
3. An automatic gearbox according to claim 1,  
            characterized in that  
            the revolution speed during an acceleration phase can  
20           be increased with approximately constant ratio.
4. An automatic gearbox according to claim 3,  
            characterized in that  
25           after an acceleration phase subject to the position of  
            the acceleration pedal a further stepped revolution  
            speed increase or a stepped revolution speed reduction  
            can be adjusted.
- 30           5. An automatic gearbox according to claim 3 or 4,  
            characterized in that  
            the regulating steps for the revolution speed increase  
            or reduction are fixed as a characteristic line or  
            characteristic field subject to further values.
- 35           6. An automatic gearbox according to claim 5,  
            characterized in that

in the acceleration mode as far as to achieving the maximum speed five to ten, in particular seven regulating steps are provided.

- 5 7. An automatic gearbox according to claim 5 or 6,  
characterized in that  
for the revolution speed increase and the revolution  
speed reduction separate regulating steps are  
10 determined respectively.
8. An automatic gearbox according to claim 5 to 7,  
characterized in that  
a minimum and a maximum revolution speed are  
15 associated with each regulating step and that when  
falling below or exceeding the minimum and maximum  
revolution speed a stepped revolution speed change can  
be triggered.
- 20 9. An automatic gearbox according to one of the preceding  
claims,  
characterized in that  
the stepped revolution speed change in the  
acceleration mode can be activated subject to the  
25 selected driving program.
10. An automatic gearbox according to one of the preceding  
claims,  
30 characterized in that  
the stepped revolution speed change in the  
acceleration mode can be activated subject to the  
driving characteristics.
- 35 11. An automatic gearbox according to one of the preceding  
claims,  
characterized in that  
the stepped revolution speed change can be upgraded by

an update of the software in a control device.

12.A vehicle,

characterized in that

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it comprises an automatic gearbox according to one of  
claims 1 to 11.